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Cure also discovered another serious substance of no practical value, to which in fact of her entire country, also give the name of polonium.

Promotes of Radium
We read and hear about "pure" radium. The amount of pure radium in the world would hardly cover the head of a large pin. As a metal it has been isolated in the quantities where named. Radium is obtained for medicinal and scientific purposes in the form of a salt, generally the bromide, although the chloride and the chloride may also be had. These salts are more useful.

Bromide bromide is a brownish powder which gives out rays similar to the x-ray, but which have the property of exciting phosphorescence in many substances and other substances. The rays out of these kinds, known as alpha, beta and gamma. The first two are the most common and are contained in the skin. The gamma rays are the most useful and have great power of penetration. It having been proved that they can be made to pass through three inches of iron and affect the cells in the body. In order to obtain the benefit to be derived from them, the alpha and beta rays may be shot off by using films or screens of nickel or lead, which permit only the gamma rays to pass through.

Now with a fluoroscope, the rays are most brilliant, revealing a new science play of fluoroscopes.

The Source of Radium

The process of extracting radium from ore containing it is a complicated and expensive process. The original methods have been improved upon by the Wilfong, Ewing and others, but the present-day method is still more and more so. The present year of radium varies from \$100 to \$200 a milligram depending upon the degree of purity of the specimen. A \$100,000 for seven milligrams, as recently represented in the press.

Radium is obtained from a mineral called pitchblende which is found in the mountains of Czechoslovakia in Bohemia and St. Ives in Canada. It is also ob-



From the
radium
mineral
pitchblende
the
element
is
extracted.

Professor
Curie
discovered
radium
in 1898
in
pitchblende
mineral
from
St. Ives
in Canada.

tained from uranium found at Grants in New Mexico and in Colorado, U.S.A. It is being produced in considerable quantities at the radium works at Pittsburgh.

Medical Uses of Radium

One is constantly being asked how radium is applied and if the application is painful. I may answer the last question first, by saying that it is quite painless. For radium treatment the radium is diluted with bromide of barium to half, one-quarter or less strength. It is spread on a small base called a plaque and covered with a special waterproof varnish. It is then covered with rubber tissue and attached with adhesive

plaster to the part to be treated, when it is allowed to remain in position from one to four hours. This is repeated daily, or so the case may require. Scarcely or films are required in the majority of cases.

In the treatment of the most serious cancerous tumors, openings are made in the growth and tubes containing lamps and powerful doses are used, which are allowed to remain in place from a few hours to several days.

Both marks and blood tumors of the skin (jaundice) and cancerous skin are most readily curable by radium. The scar left is soft, white and painless. Next to yield readily to this treatment is

radical cancer, except in the case of very old and infatigable persons. It will, however, sometimes succeed even in persons over eighty years of age if the general health and responsive power is good. Radium (skin cancer) is also very valuable in the form of treatment. Almost all cases are curable. The exceptions are those mentioned in connection with radium. Epithelioma of the lips and mouth do not do so well. For some reason, as yet unknown, the mouth case must be treated to a considerable degree. Radium is obtainable in various forms. In many cases the growth melts rapidly and peacefully away. This, however, is not true of large tumors of the neck and deeper tumors. They should be removed surgically as early as possible, and then the wound should be radiated to prevent return. Childhood is proven growth of the skin can be satisfactorily treated by radium. So also can some of the neck, such as follow supporting glands.

Can true cancer (malignant) be cured by radium? I doubt it.

Heavy duty may retard its course, may reduce pain and discharge and render the patient more comfortable, but surgical treatment should be resorted to at the earliest possible moment. When inoperable, radium may bring relief of pain and comfort.

The treatment of internal cancers by radium has not met with much success as yet. In some cases life has been pro-

longed, and patients have been made more comfortable by the use.

Polonium (twenty grams) of the same size as the piece of radium, is very expensive, but it has been estimated beyond doubt that it is extremely beneficial in relieving cancer in the head. Microscopic examination shows that radium has a selective action; that it attacks certain abnormal cells, as in epithelioma,

The use of radium has recently been advocated in the treatment of diabetes. It is too soon to say whether it will succeed largely and in this case either, but it has been estimated beyond doubt that it is extremely beneficial in relieving cancer in the head. Microscopic examination shows that radium has a selective action; that it attacks certain abnormal cells, as in epithelioma,

and changes them into an inactive substance. Its action is purely local. I hope that with a larger output of radium, the price will fall, and that it will be more generally used, for it is a substance of wonderful beneficence, and has already done much to lessen the discomforts of life that death is near and in this case as the good work may be extended. It brings lasting to many and peace and comfort to the doomed few.

An Archipelago of Memories

The Trappings of the Storied Past, Rich, Varied and Priceless Mark a Montreal Lawyer's Hobby as Historically Unique

By C. LINTNER SIBLEY

"TEMPLE GROVE"

In Montreal as in the private collection of a great and most interesting gentleman. Yet it is Canada's greatest treasure-house of priceless historical relics. Canada's "Notre-Dame de la France" as it is called in Canada, is located in Canada. It is very rich, because a man of education and a sensitive heart has devoted the best years of his life, devoted by his family, and accompanied by any institution, to collecting and preserving on Canada's behalf the historical marks of the country which would otherwise have perished or been scattered to the four corners of the world.

The gentleman referred to is David Ross McCord, R.C. His collection has already acquired the name of "The McCord Collection" and the whole of the precious relics, which have relation to many of the most famous events and characters in the history of Canada and of the British Empire, will be handed over as the property of the people of Canada for all time, and handsomely housed by the Government, as soon as Canada, in the shape of certain official authorities, steps the word.

In so preparing an object to say that Mr. McCord wants his collection to be housed in a public building in Montreal, open free to the public, and under the auspices of McGill University. But Mr. McCord wants the building to be worthy of its contents, and is not prepared to build to provide all the money is built. McGill University wants the collection, but says it is not in a position to provide the building.

There is the situation in a nutshell as it has existed for some years. Mr. McCord is getting long in life, and now, unless some suitable provision is soon made, the collection will go to Toronto or Win-

The historical collection of David Ross McCord is one of the most unique and valuable in the world. It contains many relics of historical interest, and is a treasure-house of priceless historical relics. Canada's "Notre-Dame de la France" as it is called in Canada, is located in Canada. It is very rich, because a man of education and a sensitive heart has devoted the best years of his life, devoted by his family, and accompanied by any institution, to collecting and preserving on Canada's behalf the historical marks of the country which would otherwise have perished or been scattered to the four corners of the world.



A view of the Museum of David Ross McCord with floor showing the collection.

Let me describe a little portion that has photographed itself on my memory. Several delightful and interesting relics are in the collection. The time has come to drop out of the collection away from the historical collection and the equally fascinating flood of letters and wits and anecdotes with which the specimens have been furnished.

We are outside on a warm October terrace.

Our host, one of the type of learned man who possesses wealth, instead of being wealthy possessing learning, seems not to mind. He has been here, despite the late temperature, and as with

the fruits of his own mind, he has been a very old man. He is small, square, and has the stamp of health and vigor. His features are broad and white, like his hair. He is a man of a long line of Canadian ancestry. He speaks with the cultivated accent and polished literary phrases of an Englishman, but his life was, as a postscript against the odds, the power of a Japanese gentleman. He stands between Greek columns, and looks out over the grounds of the high latitude on which his house is situated upon a vast section of the great metropolitan city of Montreal, with its incomprehensible tangle of the forest and its city night.

"Look," he says, still in the enthusiasm with which he has described his collection. "The distance between the terrace and the roof in the famous forty yards of the Place d'Armes—the famous square where the British first suffered a defeat to Britain as did the treaty of the successful war at Montreal. The height of the tower above the lawn is the advantage of the park.



View of St. Elizabeth, the site of the original radium center.



A group of people from the McCord collection, including the McCord family.

only partly true. The late upheaval was,

you before night. Your expenses we will, of course, pay, and I, personally, will see

"May you be as successful in your new venture, Senator," said the other with

line well, a water-tight box, lashed by

is there, and apparently barely affect,

(Continued on page 127.)



(Continued on page E27.)

Personal Parole and The Big Brotherhood

A New Movement Started in Canada for the Redemption of the Offender Against Society



An interior view of Reading Camp, Ontario, showing inmates' quarters.

By THOMAS BERTRAM

AFTER years of weary battling against misfortune, of meeting the wreckage of a world again against the ever increasing need of living, a writer laid down the task. His departed wife was recent still. Her little son Eddie would be left to the mercy of a world which, to the writer herself, had never seemed anything but merciful.

He had grown up in an orphanage. He was neither a genius, but not very bright, and when old enough to be sent off to settle his own living, he found himself utterly equipped to face the world. He became a member's helper first. Then he got a job in a book factory, which he did not hold any longer than the first one. He shifted from one thing to another, baffled unmercifully that way and that, and never having the benefit of a real friendship.

Finally he came to the point where the path diverged. A chance presented itself in this northern border of a western's coast. With a page of his story to the press of the prison, he showed his participation in taking the country and the justice that rewarded him in his work. It was an easy way to make a living, he found, much easier than working in a factory with hostile men and boys, to be made the nearest wish of their proud old John and Jennifer home. He continued to prefer here to there, and went finally to give up all thought of seeking around employment and de-

posed solely on what he could get suddenly.

The inevitable happened one day when he caught unadvised stealing from a delivery wagon. He had no friends to protect his side of the case, such as it was. The judge who tried it was prone to study each case that came before him on the strength of the evidence presented. He saw in the man a lot of signs that he had committed a flagrant offense against society and against punishment in accordance. He did not see the man that he would become, nor the chance of turning the mind of this erring man-on-the-making into right channels. A sentence of four years in Kingston Penitentiary was imposed.

One year passed. After three more of acquaintance with prison rules and of new relationship with society steeped in idleness, he would come out to the world again, a man in years. What might have happened to him had he been left in the penitentiary for the full length of his sentence and then been released is not hard to conjecture. One

can see him trying for a while to live a straight life; meeting a woman or two and taking nice and easygoing, gradually making into the path of least resistance and taking a living instead of making it. Perhaps he might have been through the griddle in the straight and narrow path again. It takes pretty close stuff to do that, however.

But he did not get on so smoothly the trying task of a four-year term in the penitentiary. A big idea was being evolved in the minds of certain public-minded men. Poole (Oscar Desha), who has charge of legal department for the Dominion, listened to the big idea and decided to try it out. A subject was needed. He was not keen to try it with his big brother. The latter is recognizable to him.

He was released from prison and handed over to a Big Brother, one of the members of the society known as the Big Brotherhood. The latter saw him, naturally fitted up and gave him a good deal of straight, friendly, kindly advice. Then he handed him a ticket for a post out on the outskirts of civilization where the road again was being cleared forward through a wild and almost un-

known country, with the assurance that a job would be found for him at the other end. Eddie departed with a letter to one person, which served to introduce him when he arrived at his destination in a young fellow with a kindly face, a clear selfless eye and the downy hair of a juvenile felon. The latter took him to camp, introduced him to the boys, showed him the quarters and made him feel most com-

fortably at home. The same young fellow stood against for him with the rest of the gang—a rough and ready, brawny, profane, but good-natured lot. The first night, Eddie noticed a change in the attitude of the shrewd and saw his new friend act as teacher to the motley lot of Amos, Nathan, Steve and men of less influence. Canadians who were not in the gang. He saw a halibut one of freedom with a map of low-wooded hills and the frame of a guest, looking over a primary reader; two halves of sufficiently edifying appearance to pass anywhere as legends, deep in the throes of religious and educational; the other, a young Irishman poring over a map of Canada and what might be his own life. He was puzzled without any particular demonstration.

He himself had not been "one of them." They had respected him, sure, they had liked him, but they had held aloof. For somehow he was not, and differently, thought differently. Had he worked side by side with them in the field, taken his meals with them, in the kitchen, day by day, he would have been able to get into their stride with them. If an after-dinner speech is required,

of his friend, the Big Brother decided to ask him out and then it came about that he wandered up and down through the mountains and wild districts of California, visiting the various and various subdivisions of the last friend. His quest was successful. He found the friend, but he did not go back home as he had planned. For somehow he was in the California camps, doing what he could to improve the conditions under which the men worked and to show them the light of truth and reason.

In the left at the end of that time returned that as a missionary he was a failure. But his failure was not the reason that he had come to show him the men of the camps could be reached.

He himself had not been "one of them." They had respected him, sure, they had liked him, but they had held aloof. For somehow he was not, and differently, thought differently. Had he worked side by side with them in the field, taken his meals with them, in the kitchen, day by day, he would have been able to get into their stride with them. If an after-dinner speech is required,



Interior view of the Reading Camp, Ontario, showing inmates' quarters.

a man with a polished show of words and a cool wit is admitted. But when a speaker is needed to go out as the writings, a man with the power of honest thought and the power to speak the feelings of the crowd, is the one who is needed.

He was the Big Brother found the way to reach the "hobby" of the frontier camps. The plan he worked out was to send an instructor to the camp, where a person was needed for the work. The instructor worked with the men, drew the same pay, ate with them and slept with them. Except in rare cases, he was not permitted to stay in a farmhouse. At night he held classes, encouraging the men in the rudiments of the three R's, giving them facts on the various subjects, and giving them with pleasure solutions. For this he drew a salary of \$25 a month and was given in every sense of the word one of the men.

The idea worked out with a complete degree of success and for thousands years now it has been carried on. At first it was only a group of men inspired with the goodness of his work, he reported to the authorities. But it had been heard of in the lumber camps of California. After a long silence on the part

of his friend, the Big Brother decided to ask him out and then it came about that he wandered up and down through the mountains and wild districts of California, visiting the various and various subdivisions of the last friend. His quest was successful. He found the friend, but he did not go back home as he had planned. For somehow he was in the California camps, doing what he could to improve the conditions under which the men worked and to show them the light of truth and reason.

It is hoped that ultimately the governments will recognize the necessity for providing means of education to the men of the lumber, mining, fishing and construction camps. The new educational system will be adopted, expanded and maintained at the public expense. When this is brought about, it will be possible to have an education in every camp; a development that is-day the dreamer of dreams can see possible at once.

Out of the Reading Camp Movement has come the other idea. Why cannot something be done to give the erring boy a chance to make his own way? It happened in this way. The head of the camp movement had been speaking of a school on the way. Because several men with his ideas, he told the story in each graphic manner that has become was liberally transported to the lumber camps, where men who were soiled with nature and lived in a paradise way, governed by primitive instincts. A primitive interest in the people was the result.

The story of the fight being made to give the men of the frontier camps a better chance of making their way in the world, the picture idea took form in the mind of this gentleman. At the close of the session, he sought out the speaker and asked if he would like charge of a number of first offenders through the camp.

In this way the idea of Personal Parole was evolved and the Big Brotherhood was given its first start.

There has been a growing recognition in the minds of the men of the camps, and among men as well as among the men. The first sentence released was thought in the mind of the prisoner at the time. The first sentence released to terms in the Central, put in their "time" by working out in the field, with a degree of freedom which allowed the inmates to live in the fresh air, and the inmates to engage in the work most suited to their own nature, to the inmates to live in the fresh air, and the inmates to engage in the work most suited to their own nature, to the inmates to live in the fresh air, and the inmates to engage in the work most suited to their own nature.

Under these conditions a man has a chance to work out his own salvation. But would the chance not be greater if it were possible to place him where at least of the prison, attached to him, receiving away from prison and to live in the fresh air, and the inmates to engage in the work most suited to their own nature, to the inmates to live in the fresh air, and the inmates to engage in the work most suited to their own nature.

In the province of Ontario, in the prison camp, men are being led to their quarters.

A Review of Reviews

Articles of Unusual Interest Condensed from Contemporary Literature, Home and Foreign

Crossing the Atlantic by Aeroplane Way Stations for a Relay Flight to Europe

WHILE one doubts that within a comparatively short time one or more human beings will have travelled from Australia to Europe, or the reverse, through the air, says Henry H. Layton in the *Illustrated Australian*. Whether this journey is first to be made in a machine which is lighter or heavier than the air through which it moves, does not yet appear, and it seems so if this point depends upon the man that upon the machine.

The vicissitudes of difficulty in the undertaking are comparatively few in number, and of a nature capable of ready investigation and solution on land, with one or two exceptions; always assuming that sufficient funds are available. For the aeroplane the most important thing is the assurance of the probability of the probability of the power; for the dirigible it is probably the maintenance of the lightness of the envelope, and the consequent assurance of the ability of the machine to remain in the air for a long enough time.

The both machines, however, the human element forms one of the difficulties of the envelope, and the consequent assurance of the ability of the machine to remain in the air for a long enough time. With but few exceptions, those who have discovered the problem of crossing the Atlantic through the air have left themselves bound by the probability of the dirigible, and assumed that a continuous and continuous region in a continuity. It has already been pointed out, however, that it is entirely possible

to divide the trip as to bring its various portions well within limits of endurance already readily assumed both by the man and the machine.

If we take the attempt as being made from America to Europe, and consider the possibility of subdividing the trip, regardless of the lines followed by the existing steamship lines, it is evident that a start from Newfoundland, passing by way of Greenland, Iceland, Feroe Islands, and Norway, would give opportunity for five divisions of the voyage into four sections, of not greatly differing lengths. Following the president of military premises, and letting each section be traversed by men and machines in relay, it would not seem impossible to send a mail bag, for example, to Europe through the air, with the ex-

pression which is now now at our disposal. When this has been successfully accomplished it will be time enough to think about cutting out one or more of the way stations. This would mean, in the case of the aeroplane, the purchase of four machines, including the one in which the start was made, and in the employment of an army of operators. Doubtless such a method would not appeal to the sporting element, which regards the undertaking in the same light as a yacht race or similar event, but when considered solely as a constructive engineering problem, the plan may well be considered upon its merits.

From St. John's, Newfoundland, to Cape Farewell, Greenland, is a distance of nine hundred and forty miles, this being the longest leg of the trip, and one which might be very suitably shortened if a subsidiary starting place could be secured in the coast of Labrador. From Cape Farewell to Reykjavik, Iceland, is somewhat shorter, being eight hundred and twenty miles. These two portions of the voyage, the first traversing Davis Strait and the second crossing Denmark Strait, are those in which the difficulties of fog are most apt to be encountered, although it is possible that the route may pass farther south than the region of dense fog.

From Reykjavik to the Feroe is four hundred and sixty miles, and from the latter it is four hundred and twenty miles to Bergen, Norway.

This makes a journey of twenty-four hundred and forty miles, divided into four fairly equal



Map of the North Atlantic Ocean showing the proposed relay flight route from Newfoundland to Europe.



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all are convalescing in order to do good work. They must have the essential vitamins and enough to furnish them. Good nutrition, food, and vitamins accompanied the policy of building comfortable homes for the workers, which these convalesced first. Allowing time was given to make the first readings of these home structures with letters and photographs of tropical rain-forest scenes of the islands in the Indian Ocean—Koror, for example—was a stimulus in a degree.

Other lines of activity rapidly developed. Even with their convalescent homes, if these workers had been paid their wages and told to shift for themselves, they would indeed have had a busy time of it. One thousand miles from home in a tropical country, they would have had difficulty in buying their food, in obtaining proper medical and nursing services, in obtaining necessary supplies, where the last products are sold at exorbitant prices. In order to do their work, they had to be supplied with the necessities of life. Accordingly, the Government set up its own commissary stores, where the last products are sold at exorbitant prices. In order to do their work, they had to be supplied with the necessities of life. Accordingly, the Government set up its own commissary stores, where the last products are sold at exorbitant prices.

These few lines are possible because the Government has to maintain special facilities because of credit in perfect, and because all employees are eliminated every employee, there is a while, but a good chance to try at the standard Government prices.

But this is not all. Bread and so, for example, which are perishable products, were handled, and the Government, while it was in operation, built a huge building where practically all the bread used in the Islands is baked and sold at four cents a loaf; it has an ice plant (making one hundred and one tons a day), in which is also contained an ice-cream factory and there is a Government laundry and there not only washed was all of the clothes of the Islands (at most prices) but also a large business in laundering and pressing things. A complicated and efficient distribution system over the Government-owned railroad has been developed, so that every little town, even every station on the jungle, gets its food, mail, bread, ice, ice-cream, and so on every day.

Another necessity to the convalescent life of the worker is adequate advantages for educating his children. The Government therefore maintains schools on the Islands where children of all races may be educated.

And finally the wages paid on the Islands to-day are probably the highest ever regularly paid anywhere in the world. Payments which is private enterprise go into interest and profit may be distributed to the workers. High wages were offered to start with to tempt men to come to this far-off and dangerous place, but most observers to-day believe that the higher wages paid are a result of the fact that the workers are a valuable asset to the Government.

The Government, following in the footsteps of the Government, has built comfortable homes for the workers, where they are convalescing in order to do good work.

These are libraries, ballroom, bowling, and dancing rooms, bathing facilities, gymnasium, and so on. The idea of these is operated by the Y.M.C.A., and are not advertised as the payment of a small fee. Students and artists (except the Japanese) and other sports are encouraged. Each employee has the privilege of a party vacation, when they go to the islands in the Government's ships. These personal relief does not prevent a pleasant security of employees are to retain their health and good spirits.

While beautiful surroundings are thus encouraged. The number of visitors on the Islands is limited, and they are so restricted that the social distance is largely eliminated, and disinfectants are not indicated. Nothing but pure joy is allowed on the islands.

Finally, a man to do good work must be in the right attitude toward his task. Having secured health, comfortable surroundings, and recreation for the worker at a necessary material basis, the most important (the spiritual) factor in good work remains yet to be obtained. Crede videri and good have to long been the ideal conditions in driving home the message of wage-earning that it seems impossible that any new measure should become as important factor. But it is not at all. It is really simple. It is that "an attitude and responsible spirit of achievement" which I have called the "new patriotism."

Colonel Bethel has developed the new spirit toward public work. There must be other things besides justice between men and man. Justice is justice. There must be a change of reward for individual progress and individual energy. The most the best, material needs of man are supplied by money or in-service, but the spirit is the requirement for the new and vital forms of individual competition.

It has been charged that Government work is done in a hurry, but it is not so. It is that there is a place in America today where there is a four-penny for every man that has a place in America today. It is that there is a place in America today where there is a four-penny for every man that has a place in America today.

On the other hand, the Government has a duty to do. It is that there is a place in America today where there is a four-penny for every man that has a place in America today.

But this is not all. However, for example, but it is not so. It is that there is a place in America today where there is a four-penny for every man that has a place in America today.

"Well, Mr. President, what have you to say to this?" "I've got it in this line—this!" He opened his bag and took out the money of a new kind of steel ball, but it was not in the bag as he said before. He had it in his bag with the engineers, and he had been up

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promised, and the Canal now gave him time to develop it further and to make a working model.

Under this encouragement the Government is profiting by the use of many labor-saving inventions by Canal employees. All these inventions and devices are, of course, and finally by the Government, but some of them will bring considerable results in the future for the use of their patent rights by private enterprise or by other Governments. So there is opportunity at Panama for every man to be as great as he likes to be.

Another condition, and an important one in securing the right attitude of the worker toward his task, is the sense of complete frankness as between the leaders and the followers. Publicity is a vital element in any democratic enterprise, for special privileges and favoritism cannot thrive in the atmosphere of publicity. I never knew any place where there was so little whispering behind doors, so few secrets, where no one had any type "straight from the inside."

Full publicity is not only given; it is needed. An excellent public newspaper, called The Canal Record, makes known property of all the facts which in private enterprises are so lightly covered as "business information." And why not? Everyone on the Canal Zone knows, or may know, every word nearly as much about the progress of the Canal as the engineers themselves.

I think it may be said that so large body of workmen ever before lived under more stimulating conditions than these. It has even less changed that the Government was calmly holding the seat at Panama. But what has been the result? The work, after all, must be judged by the actual standards of efficiency, efficiency, efficiency.

Some of the other results of the publicity at Panama may be stated in broader terms.

Most public works are notoriously slow, but the Panama Canal will be finished a year ahead of time. Most public works run far in advance of their estimated cost, but the Panama Canal, in spite of the fact that millions of cubic feet of earth have still to be moved, for the construction of which no guarantee was made in the original estimate, will be finished for \$10,000,000 or \$10,000,000 less than the estimate of \$10,000,000 made soon after the battle was won at Panama.

Up to this point, nothing has been tried almost exclusively upon the conditions on the littoral—the leadership, the spirit of the workers, the methods employed, and, finally, the results in estimation.

But this represents only a small part of the influence of this national endeavor. In a larger sense, the Canal is changing the view point of the American nation itself, so that which will be still more noticeable with the passage of time. It may well be that the Canal will mark the date of the Canal as the beginning of a new epoch in American life.

As the Spanish War gave her outside interests and a new complexion to herself as a factor in the politics of the world, so the successful completion of the Canal is giving her a new confidence in the ability of the nation, rightly led, to do things of which she has in the past been wont to private enterprise. She has gained in self-confidence. She will henceforth see in the future about national undertakings, enterprise and effort, though they may appear. It has given her confidence to be able to push an ideal leader from out of a group of men trained by the nation, it has made her feel that other leaders are to be had from among her citizenship, and it has given her a new sense of the power of consent of action.

THE ROMANCE OF OIL In Canada Distant to See Lights Like These? Oil Wells Which Draw Back to Pre-historic Times

MOSES has been heard of late of dreamers pertaining the presence of oil in Western Canada. Should the supposition of these engaged in the prospecting for it be realized, our own country will witness the spectacular future attending the development of an industry which has the subject of an article in the World Wide Magazine.

Imagine a three headed staff each of three shooting up into the sky, topped with a great column of smoke and steam, and you have a "gusher" one of the most striking sights of the oil-fields.

There in the oilfields, as a matter of fact, are not at all uncommon. A few months ago a big one occurred near Bakkenfield, California. It started in a well which was properly equipped with the Pacific Crude Company, upon which a "gusher" was speaking at the rate of seven thousand barrels a day. It took very little time for flames to appear over this oil-covered ground, and soon the "ramps," or of storage-tanks, of this company were white, and from them the great "gusher" itself began to erupt. It was a wonderful spectacle at night, for the flames took on a blue, almost, appearance; then they would suddenly stop, appear with a roar, making a shower of flames far into the sky.

In face of an outbreak of this kind, of course, ordinary methods of fire-extinction are useless. Sometimes portable steam-boilers have been used to the ground, and great volumes of steam were injected into the heart of the fire, but in spite of every effort it burnt viciously for over a week before it was finally subdued.

The cause of the trouble was not one of slight error, setting up the contents of the storage tanks of crude oil, the engine-boilers, the steam-boilers, and others, but in the pump. The last was over thirty thousand dollars.

Very often big fires occur when it is said that the "gusher" has started. These usually come unexpectedly, from the quality of the inflammable vapor,



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south-of-pool luxury last September, when meniscus are manufactured at that material for instance to take home. About eighty men and twenty-five girls were given employment by the man.

"For the money" settlement a house was purchased, with a garden surrounding. As there are no stores in Jerusalem, I had to deliver every bit of furniture, I had to make beds by night, and so on, with very little work.

"At last we had to overcome the ignorance and superstition of the inhabitants, of whom two-thirds are Jews. We did this through the schools, because we could reach the children much easier than the grown folks. There are about 8,000 pupils in the Jerusalem schools.

"The greatest scourge in Jerusalem is trachoma, and until we came here the disease was allowed to run its course until blindness resulted. Fully 30 per cent of the people are afflicted with trachoma, which is contagious. To combat this disease, we engaged a European eye specialist and so, without, and although the work has been under way for a short time, there has been a marked improvement.

"Another building was purchased and fitted up for the household school, where girls between fourteen and sixteen years of age are taught domestic science. Most of the houses in Jerusalem are very dirty and noisy. The people are, too, but they cannot be blamed very much because water runs down in a luxury. The educational department is on the rise between October and May.

"In the household school the girls are taught how to keep their rooms tidy, how to wash and iron their clothes, how to sew, and how to cook. In this way they are being equipped to become better wives for the members of the various colonies established in Bureh al Khatimah throughout the Holy Land. They speak the Hebrew language—most of them—and are taught in that language.

"Another reform instituted by Mr. Struss was the cleaning of the street leading to the 'Wailing Wall,' which is part of the ruins of the Temple of Solomon, where the people go to pray. Until a short time ago this street was one of the filthiest in all Jerusalem, but at Mr. Struss's orders and expense it is now being swept three times a day and kept in perfect condition."

Mr. Struss's idea of brotherhood has not confined itself to help of the needy before his eyes or of his own race. He routed quantities of food, clothing and medical supplies to Moscow after the earthquake of 1909. In his methods of charity, were the order, he is widely admired.

"Having set up a board of health in Palestine modeled after that of New York, schools, and carried out preventive methods of treating disease based upon metropolitan examples, he will undoubtedly soon, on reaching Jerusalem next month, make a successful 'warrior' and have his further prophecies as to what that disease—determining whether the next years are successful for the city, in the hands of the doctors, and the agent of the city, a campaign against such

quizzes and malaria, and generally directing his people are rich and merry and having a life that most appealing note of which the Psalmist said: 'If I forget thee, let my right hand forget its working.'"

WILL RUSSIA HAVE A QUEEN?

The Question Which a Today Answering Every Russian from Caesar to Nicholas

It is the wish of the Tsar of All the Russias to appoint his daughter, Olga, who is now eighteen years of age, his successor as ruler of "Holy Russia," says a writer in *Idem*.

The righting heir to the Russian throne is the little Grand Duke Alexis, who, however, will never be strong enough to reign, being hopelessly crippled, and it is feared almost permanently ill.

The next natural claimant to the throne would be the Grand Duke Michael Alexandrovich, who married a woman out of Royal blood. He has estranged himself with the present Tsar and has now taken up his residence in England. There is only one legal objection to Grand Duke Michael becoming Emperor of Russia: Tsar Paul had his mother, Catherine the Great, and made a law providing any woman occupying the throne, but the law which is so suddenly proclaimed can easily be repealed by Tsar Nicholas.

The problem which the latter has in mind is the least important the coronation of Olga would arouse among the great dukes, who have a very great influence. There is much talk in political circles in St. Petersburg of what the great dukes might do to each a queen, or what she might do to them.

Although Olga has had as occasion to give public evidence of it in a number of times, she is strong-minded and of revolutionary tendencies, and the only parallel to her probable method of government is to be found in that of Catherine the Second, more popularly known as "Catherine the Great."

If Olga comes to the throne she will be the second of that name to do so, the other being the first woman to rule over the Russians. She was the widow of Alex I, who married long before the days of the Romanoffs, and succeeded him as the Empress after his death in 1825, and reigned for twelve years, when she abdicated in favor of Alexander.

There have not been many Russian Queens, and the remaining four are as follows: the wife of Peter the Great, Catherine the First, ruled for two years, Anna, who reigned from 1730 to 1740, Elizabeth, 1741-61, and Catherine the Second, who reigned for a period extending over thirty-four years, between 1762 and 1795.

The coronation of Olga to Catherine is brought about by the query of whether she will render Russia the same kind of a ruler, and rule independently of the great dukes who have been retarding

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IS GASOLINE TO RUN OUT?

With a Declining Production and an Ascending Price, What Will We Do for Power?

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The price of coal is going down; but the price of gasoline is going up. Why? Because the supply of the kind of petroleum from which gasoline is obtained is steadily dwindling. In 1913 there would be one barrel per acre more of gasoline and motor trucks to operation than there were in 1912, but the average in gasoline production will be less than in 1912.

A new record. Since thirty-four years ago the first oil well at Titusville, Pennsylvania, to a depth of 486 feet. In a year he pumped up about two thousand barrels of petroleum, and was glad to sell them at a fair profit. In the year 1912 the production of the world amounted to 362,000,000 barrels, which is nearly a million barrels a day. That is enough to make a lake of respectable size. The United States alone yielded 208,280,000 barrels—more than half the world output. Yet, hereafter it is very soon, the world will be short of gasoline. Last year the refinery oils from which gasoline is obtained in the United States decreased about 6,000,000 barrels. It was necessary to take about 15,000,000 barrels out of storage in order to make up the deficiency and to meet new demands. Unless new oil-fields are discovered, producing a petroleum of the right composition, the market demand for gasoline can hardly be supplied for another twenty years, and gasoline (as, indeed, the undisputed fact we can sell by that time) has come to drive motor cars long before the end of the century.

In the light of these facts, it seems strange that petroleum should now have been regarded as so much an abundant from which only illuminating and lubricating oils could be profitably derived. Gutthel Denner, who has made the first commercially successful high-speed gasoline engine, so much disappointed that his motor supplied and improved, would supply the power, but positively he never dreamed that his invention would ever give more the world to wonder about it all. The automobile industry, an industry now grown by leaps and bounds since Denner's day. In 1913, for ex-

ample, the largest manufacturer of low-priced automobiles in the United States produced about 230,000 cars. From the Magneto, of the Ohio State University, we estimated that all the steam plants in the United States produce a total of 10,000,000 horse-power, but the low engine produces motor-cars is not, averaging 20 horse-power each, has a total output of 23,000,000 horse-power. In 1912 at least 15,000,000 barrels of gasoline were consumed by these automobiles, but, in addition to automobiles, motor boats must be considered, representing about 15,000,000 horse-power. There are here the surprising total of 38,000,000 horse-power at the average energy developed by the available power engines of this country. But that is not all. There are thousands of steam engines which consume gasoline, and we could even guess by how much they consume the same as the power engines supply, and by how much they add to the total horse-power developed with the aid of gasoline. Very few turbines, automobiles, or motor boats which require less than a quantity of gasoline which was produced in the laboratory of science only after the lapse of a prolonged epoch—a million years and more perhaps—estimated by present means is a far-reaching miracle. The proceeding is economically more useful and necessary than heating ourselves with 5000 lbs. but it is only as rapid, and not so much as the automobile. Professor Magneto has stated that, if all the gasoline engines in the country were to be operated for only one day, the present supply would last only about a week. Next year the situation will become more serious—have much more to see leave serious, because it is impossible to determine how much more oil will be found in 1914. One estimate places the number at 500,000, which is probably too high. Assuming that 600,000 tons will be added by the end of the year, and that their average fuel consumption will be at least one gallon of gasoline a day, an oil report, Mr. Henry Upp, figures that 36,000,000 barrels of oil are needed to be required. "It will take something like \$75,000,000 of new facilities to meet the increased demand of gasoline. That is a heavy burden, and we can hardly supply facilities for the present demand for the fuel."

The oil fields of Pennsylvania and Ohio used to yield the best gasoline in the world. Indeed, the best Pennsylvania crude oil is worth as much as the market now as refined kerosene in bulk. But, instead of producing 30,000,000 barrels a year, as they did in 1910, the Pennsylvania fields yield only about 6,000,000, and instead of producing fifty per cent of refinery oil, from which gasoline is obtained, as they did in 1910, now they produce but four per cent. This story is repeated almost everywhere. There is Ohio, for example. Its oil production (as follows) 24,000,000 barrels in 1910; 10,000,000 barrels in 1913; and, because MacLean's production was 11,000,000



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barrels in 1904, has shown a shrinkage of nearly twenty per cent. To be sure, California and Oklahoma still maintain their standard, but their oils yield only a very low percentage of gasoline. West Virginia is the only Eastern State that has not suffered a reduction in its oil yield. A good Pennsylvania oil well brings more than \$2.15 a barrel at the well because of its closeness to gasoline, but a California oil is worth only 30 cents a barrel at the well. Thus difference in price remains the difference between the asphalt side of the West and the petroleum oil of the East. It must not be supposed that the gasoline factor determines the value of an oil entirely. The California oil is worth only 30 cents a barrel and only because it contains less gasoline than the petroleum crude oil of the East, but also because it contains very little of the kerosene or lubricating fraction. Lubricating oil is an even more important and precious of crude oil than gasoline, without it the wheels of industry would indeed be stopped.

In view we turn abroad for gasoline. Europe is now worse off than we. In Germany gasoline brings 43 cents a gallon. Indeed, all western Europe is dependent on foreign countries for liquid fuel—a serious handicap in military powers whose automobiles include gasoline-driven automobiles, motor boats, and tractors.

The situation might not be so serious if the newly discovered oils were not in gasoline. But the new fields—those of Mexico and California—yield an oil from which very little gasoline can be obtained. Hence the oilfields have been compelled to adopt equivalents which have enabled him temporarily to meet the demands of gasoline. It would be much too long, much too complicated, and much too technical a story to develop his mysterious move in detail. The briefest possible sketch will suffice.

In these enlightened days one supposes that gasoline bubbles up out of the ground ready for the automobile, nevertheless, very few gasoline-consuming have exactly what gasoline is. Crude petroleum must be distilled in order to obtain gasoline. As the oil is heated in a still that looks like a boiler without legs, vapors rise and these into cells, in which they are condensed in a liquid called a "distillate." At first the lighter vapors are driven off, but gradually the heavier vapors ascend and are condensed. There is no sharply defined line between gasoline and the kerosene. Hence in distilling the kerosene the refiner must exercise his judgment, and sometimes. As the process of distilling continues, the gasoline becomes heavier, and the refiner stops when he has a product that passes for commercial gasoline. These polymers and consecutive very with the main, there are always as many varieties of gasoline as there are refineries. Some refiners treat the crude heavier and a part of the heavier fraction is separated and sold separately. In a word, gasoline is not a scientific designation for a definite liquid, but merely a general name like "soap." "Kero."

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"big," or "good." Because the demand for motor fuel is outstripping the supply, the refiner has been compelled to sell as gasoline a distillate which contains a fraction of the vapors that he would have selected into the gasoline tank a few years ago. If this gasoline had not been adopted, gasoline would have been even more expensive to-day than it is, and the motor car industry's amazing growth might have been checked. Despite this unsavory degradation, the automobile demand is insatiable.

Time was when gasoline was almost a necessity to the refiner. Twenty-two years ago petroleum derivatives were employed chiefly as illuminants; very few engines contained them, scarcely as fuels. There was no real market for such light, highly explosive, volatile distillates in gasoline. To be sure, incandescent lamps and candles in common gasolene spots and stoves from factories and places; but their requirements were not great enough to keep even a moderately advanced lamp producing gasoline. Because it could not sell it, the refiner used to keep his gasoline as light as possible and would sell the vapors that he drew into the engine, but which distillate was a realtor side while it had been further distilled to yield benzene. Indeed, it was necessary to pass laws in order to prevent the sale of benzene that was too volatile—in other words, too explosive. All that is changed. Benzene has become much less important than gasoline. Most of the laws that govern the sale of benzene and gasoline what is used what is not a safe lamp will be repealed, if the larger part is more because highly explosive. It has even been necessary in South China, Africa, Persia, and India the use of the benzene lamp in order to open new markets. Electricity and gas have supplanted benzene as an illuminant in this country.

Three gasoline troubles have not descended upon the refiner's business. Oil elements and engineers demand three years ago, and jumped, methods of extracting them long before the price of gasoline began to waver the automobile war. Some of them experts have anticipated the use of benzene, a waste product of gas works, which is even better than gasoline as an engine fuel when properly treated. Unfortunately, the supply of benzene is not great enough. About one-half a ton of coal must be used to obtain a gallon of benzene. While though it is, the great chemical companies of Germany pay for all the benzene they can and convert it into dyes, perfumes, flavoring extracts, explosives, photographic developers, drugs, and ten thousand other chemicals more valuable than gasoline. Alcohol, too, has been suggested. No doubt it would cover the requirements of the automobile if engine and accessories were modified. On the other hand, it is dearer even than gasoline in this country, and there is no moderate prospect that it will be cheapened.

Even assuming that a suitable, abundant, and cheap substitute for gasoline will be found, there is a business side to this fact problem that cannot be ignored. Crude oil and the distillates can be obtained in every civilized country on the face of the earth. No commercial products are so systematically and widely distributed for sale. To build a distribution system for a gasoline substitute would be the labor of a decade. For years the use of a new fuel would be confined within a few miles of a few distributing centers, and the automobile would actually cling to its familiar gasoline, however expensive, until benzene it could always be readily obtained, whether it be burning at Harrow or Italy, Alaska or South Africa.

If a change in fuel is made at all, we may expect the substitution of kerosene for gasoline. Even now an automobile engine can be run, if necessary, with kerosene. No so long ago a car was driven from New York to Boston after it had been started with benzene, but an automobile cannot be started cold on kerosene alone. One of the most serious troubles from kerosene engines is the waste of kerosene as a fuel. A Mercedes motor car company saves gasoline will become successful, and more than the London motor car company has done this month's average in fuel troubles by employing a combination of benzene and kerosene. But the substitution of kerosene for gasoline will mean a change in automobile design.

RELIGIOUS FUTURE OF CHINA

Will Confucianism be Declared the State Religion?

WESTERN readers have long been accustomed to hear from writers on Oriental subjects that the religion of China is a relic of rapid degeneration, says a writer in the *Yenching Century*. That such is the case has almost, during the past few years, come to be regarded as a truism.

Yet it is far from certain that Confucianism and Buddhism are so regarded of their own countrymen to adopt themselves to a new environment, that they are prepared to die individually out of the moral and religious life of China. Moreover, there is some reason to suspect that the recent exhibition of Christianity (which culminated in the request of an evangelist Chinese exhibit of Christian property) was to some extent, and was accompanied with circumstances—political, social, and economic—whose belief is a temporary phase of Chinese national life.

To understand the present position with regard to the three principal religions of China we must take a brief survey of their condition just before the outbreak of the Revolution.

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public funds, and stating essentially that the Government had not performed those by Government officials on part of their regular duty. The Conference discussed the question of the continuation of Chinese students a problem was raised, especially their first or second year students, who were from Greece and Rome, and they were regarded with a suspicion on previous somewhat similar to that which led to their being sent to the United States in 1900 and 1901. The Conference decided that the Government should be asked to make a study of the situation of the Chinese students in the United States and to report to the Conference. The Conference also decided that the Chinese students should be allowed to continue their studies in the United States, but that they should be subject to the same regulations as the other students. The Conference also decided that the Chinese students should be allowed to continue their studies in the United States, but that they should be subject to the same regulations as the other students. The Conference also decided that the Chinese students should be allowed to continue their studies in the United States, but that they should be subject to the same regulations as the other students.

An acute problem, the position as a result of the 1954-55 census, was that the Northern Chian Indians were in a state of destitution. At certain large towns and over the capital of the country, the Indians were in a state of misery, but elsewhere the Indians of the Highlands were at a low level, and the Government was unable to do much to help them. The Government was unable to do much to help them. The Government was unable to do much to help them.

group, and there are various signs of activity among the Buddhists of China. A Central Association, or Chinese Council, has been established, which exercises disciplinary powers over all Buddhist institutions, monasteries and encourages the establishment of schools and orphanages, and appoints committees for the promotion of charitable work of all kinds. There are now four monthly magazines in the Chinese language which deal with all subjects likely to be of interest to Buddhist readers. The contributors to these magazines include both monks and laymen, and among them are several men of learning and religious

Whether the reform movement among Chinese Buddhists will have the success which optimists anticipate is at present a doubtful question. Perhaps the most cautious observers would say that the decay of Buddhism in the northern provinces has already gone so far that a permanent renewal of health and strength is hardly to be expected. But

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that, in some of the central and southern provinces, Buddhism may still look forward to a fairly prosperous future, as may be able, in time to come as in the past, to contribute towards the moral and spiritual nourishment of the Chinese.

the fact that a Buddhist cannot be said to regard one another as avoidant Confucians. Indeed, have often been the destined enemies of Buddhism since Buddhists tend to encourage the solitary life of the quester, while Confucians are more concerned, regardless of sect, with the means and substance of social morality. In actual Confucianism, however, there often had strong sympathy with Buddhist thought, and even found in Buddhist philosophy some kind of support for their political idealism. The attitude toward Confucianism of the Han of the Han of Buddhists towards Confucianism is open more amiable, the good Buddhist will sometimes claim that his own system makes good the external defects of the Confucian system, but it is clear that Confucianism and Buddhism are in any way antagonistic.

The Confucius Association issued this first number of its monthly magazine in February 1983. The editor of the new accessible magazine, Dr. Wang of the Confucius Association, said that the magazine was to be edited by Dr. Chen Xuebin, a member of the Chinese People's Association of China and a Doctor of Philosophy at the Chinese Academy of Social Sciences. That a man of Dr. Chen's experience and qualifications should have identified himself with a movement for the renewal of Confucianism is a significant fact of great significance in itself. It shows that a highly intelligent Chinese scholar who has spent many years in the Western country in pursuit of Western culture, has been able to understand the heart of Western thought and ideas, is nevertheless able to retain his respect for the religious and moral values associated with the teachings of his country's sage.

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Beating the Oriental at His Own Game

In the March number of *Farmer's Magazine* the story of John Walsh and his market gardens of Steveston, B.C., will interest everyone. As everyone knows, Oriental labor in the Occident has threatened to exterminate the white man in this business.

John Walsh at the age of 50, penniless and alone, thought the job not too discouraging. He believed in putting quality into all his products. The genius of Anglo-Saxon superiority found a way, and the result last year, was a \$1,600-an-acre income, with a handsome net return over the whole garden.

Editing now suggests the source of supply. A visit to the home of one big British Reader of the "Blackboard" makes a cheering study for every lover of the Doctee—where great champion Glenasmoleek of London were to originate.

The issue has many other appealing stories for the Business Man.

Counting Black Mark Auto's.—Tells of a successful farmer near Hamilton, Ont.

The Bedding of Affile.—Henry Glendinning, the grand old son of Blackboard Farm, gives a 40-year review.

An Up-to-Date Prairie Home.—Architectural ideas and decorative schemes for rural residences.

Why Cultivate Corn?—Does the soil need stirring, or is it only a seed-billing game?

The Cheese Factory Zoo.—Prof. H. H. Dunn's second surprising article on Ontario Dairying.

Many other articles of interest will make for you a corner to your affections with a money here already felt. *Boxer's* is a Magazine of inspirational information. That sends dollars to the man who is looking for an idea. Send for a copy now.

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territory of a section of Young China to break away from the traditional—social, political and religious—of this new and ancient. They are aided with an overpowering force that some village elders have decided to abolish the teaching of the Confucian classics in their schools, and they enthusiastically accept the Chinese people—with a readiness which is born of ignorance—that "the whole philosophy of Confucius is spent."

The true friend of China is not likely to apply such barbaric notions, and encourage its aims. What then will be his attitude towards the great question which is now confronting the mind of the Chinese statesman? He is confronted by a new Constitution for their country within the sacred borders of the altar of Heaven. Surely he will not seek to recognize the principles of Confucianism the ordination of Chinese possesses a moral and spiritual basis which will have comparison with any people's civilization, and which is likely to prove fully adequate for all the constructive or reconstructive requirements of the future. He will probably be of opinion that the complete separation of religion from politics is a wise principle in a general rule, and that careful consideration should be given to the possibility of preserving Confucianism apart without making special provision in the written Constitution for its maintenance by the state; but he will feel that if Confucianism can be saved from decay or disintegration in so easy a way that it would be far better to establish it as part of the constitutional law of the land than to allow the Chinese people to run the risk of forfeiting the moral and spiritual inheritance of their race for the sake of embracing a modernized principle which, after all, has never as yet put forth a single principle of purification apart from the effluence of its profane corals.

Dr. Chen is the author of a work, written by himself in the English language, in which certain great principles of Confucianism are explained and defended, and the place of this work, and the manner of treatment, are well shown to show that the Confucianism which Dr. Chen recommends his countrymen to respect and maintain is not a Confucianism that will break about some elaborate and the petrification of the national forms, but a Confucianism which will proceed with expanding thought, which will be fully compatible with a religious progress, which will be favorable to the growth of noble ideals in politics, economics, ethics, social life and religion, and which by promoting intelligent harmony will work for the realization of the Confucian maxim that "within the four seas all men are brothers."

There is now profound assurance that America was protected from Asia by way of Dering Straits. As to the time, there is no definite estimate, but it seems likely that it will be following or at least in the shadow of the electric power from the southern part of the continent.

IDLE MILLIONS

Where Huge Treasures Amounting to Millions of Dollars Really Lie Hid

IN VERY few years, says a writer in *Le Courrier du Samedi Journal*, there will be an extraordinary change in the world. The future is in the Pacific, the latter in the Atlantic. They are the two most famous of all the world's treasure troves, and the golden islands which are supposed to be buried among their reefs and sands mean to them as absolutely irrevocable fact.

It is confidently estimated that the last of these expeditions cost \$300,000, and it is said to say that the money and the treasure in the many voyages for these two alleged treasures have cost far more than any people ever gained from Spanish gold. And the odd part of it is that while all this enormous effort is put out in search of millions which are largely mythical the actual locality of other colonies or buried treasures is absolutely known.

Writing on the beaches near the Lizard Point, Cornwall, fishermen and sailors have frequently pointed out gold coins and small signs of the same precious metal. The more men Spanish and they come from the wreck of a large Spanish ship which was blown there in 1574. This ship was blown with great force, owing to the wind was then raging in Spain, was being carried to London for safety. The spot where the ship is actually known, and is very close to the shore. Attempts have been made to recover the rich cargo. Early in the afternoon a company went a small through the rocks below high-water mark, but in effort to reach the wreck. All the treasure in the wreck was abandoned. Later, dragging operations were attempted, but these failed. The gold, however, is still there and it would seem that modern science should be equal to the task of recovering it.

Off the Welsh coast lies the Ross Rading, a hidden treasure of gold and silver, meaning for miles under water. In old days, before it was known, it was a great deal of time for ships. Ross was wrecked the French treasure ship "Revenge." Since by an enormous wave, she was long of the river, but she was cut off by her, and she sank on the far side in deep water, carrying down with her some \$200,000. It is said, however, that a boat has ever been recovered.

120 Millions Under the Sea
Vice Bay is a deep but narrow inlet on the western coast of Spain. In the year 1715 seventeen Spanish galleons laden with gold and treasure from South America were attacked by the British and Dutch fleets and all Spanish ships took these ships to great capture. These ships with the ships the treasure value of twenty-five million dollars. While the two centuries have passed and a half million dollars' worth has been recovered. The spot at which these ships sank is fairly well known. It is said, indeed, that an Italian adventurer, using a sort of sea telescope, has actually located several

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points there is a constant demand among Oriental physicians and apothecaries, who grind them into a powder and administer it to patients as curative of many ills.

At one time—before the drug-trust became general and superstitious the thoughtless business of the non-drug was supposed of much improved efficiency, and the substance was often well treated, as they sometimes seemed in general when opening the bottles, but superstitious has probably just as well to that some long-remembered keep the stuff in water, like some nations, and open them as follows with their own hands, where stood over a couple of Keweenaw who do the work on hand. The idea that the Japanese "drug" and Japanese—both among the best doctors—now tell a post-bearing expert by touching the shell is still widely prevalent, and it is alleged that when the touch is advised, the doctor throws the water into the corner of some rock, from which it is afterward taken out and appropriated as his own property, but as a rule the suspicion is groundless. Doctors who are on hand learn with their employees or are about to hire a box of their own, and may come upon a case of epidemic, and on returning to the hotel declare that there is nothing better but advise that risk in becoming less effective day by day. The glass-bottomed boat is coming into use in pouring water, and the master of each a boat is able, if the water is fairly deep, to suggest the combination with the diver at each.

Diving means peculiar demands on the mental and physical systems of the men engaged. Some of the most difficult part of his task before the diver's mental condition is usually. A group of men, as a rule, of the three or four, usually, are engaged in the diver's imagination, and he signals to be pulled up, involved in how many times and then. However, when he reaches the bottom the emergency work is done or at least into someone, everything disappears. On the other hand, men prone to "violent" have known gasping and death by a couple of diving.

At a depth of eight feet a diver cannot see very well, he sometimes sees only, and breathing begins to trouble him. At every foot deeper he thinks how slight a mishap may find the bottom, and all his thoughts tend to escape him. He is usually and his hands. At each time the emergency work appears to him as a hope of escape—the gasp that is a dirty dollar a month, which comes at a magnificent price; but when he comes to the surface and rests a few minutes all is again serene.

Surfers, which are supposed to be a most terror, give the average diver little concern; he is more afraid of the result of North Queensland. A diver is particularly safe on the beach, because something which he not ground-fall, if they can not they will tell him for a month or so, and then they try to prevent him, but the diver and his long hair usually always win. The diver's worst enemy is the deep in the great ocean. This large structure,

from five to seven feet across the shell, has with extended jaws waiting for prey. The diver drops out of his hand with a heavy stone attached to his feet, and if a leg touches the brittle but few days on it with a snap, and the sea must swallow the fish or perish, as he is told with a tenacity that it would absorb some power to lower, and the machine is attached to the bottom with a cable of the same strength than a three-inch rope.

The Australian post boat is covered with pulleys and ropes, depending in the order to eight fathoms. When the diver is at the great bottom, from a physical point of view, is the water pressure at some ten twenty fathoms. The diver who goes deeper is in peril. Even at a less depth he is in constant danger of contracting what is called "decompression," but it is really a lung disease. When a diver comes up after some ten twenty fathoms pressure, every minute of his decompression is found to be proportional to his time, away to the pressure of the water. While below, the body is reduced in bulk by the weight of the water; but as he comes up and the weight is lost, the result is a rapid expansion of the capillary vessels.

Over two thousand miles of the American coast starts pouring water, under the Commonwealth of Massachusetts, the saltwater of the Atlantic for diving purposes, issued on 24th December, 1903. Under the new regulations the Government will supervise the hours of work, their daily their sleeping accommodations, a watch, and their state of health. Old laws which they must not touch to such an advertisement cannot be set back.

There are, of course, other industries allied to the search for pearls, but this would be the great foundation.

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The aim of his system is to create a thinking mind, a kind of instrument that can be designed to work in different ways. This word now signifies in science, history, languages, and so on, as they are, when the foundation has been laid.

The children are never kept from their feet or fourteen pupils at the outside, even eight is too few for a good study. But, notwithstanding, mathematics, physics, and other things. The boys and girls have some home work, and are not kept from their feet or fourteen pupils at the outside, even eight is too few for a good study. But, notwithstanding, mathematics, physics, and other things. The boys and girls have some home work, and are not kept from their feet or fourteen pupils at the outside, even eight is too few for a good study.

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The clearing was over. Mrs. O'Flaherty was talking the butter with her hands at the table. Mary Kate sat up with the table on her knee.

"Good evening to you, Mrs. O'Flaherty," said Melton.

"It is yourself again! Faith, I thought you were gone for today anyway."

"I looked in upon to see if Michael Pat was off duty after the shooting of the night. I don't know where he gave him. Would you please to clear the butter or clearing the table, Mrs. O'Flaherty? Or would you rather be taking them to some the way to do this afternoon? I see you've got him asleep there, Mary Kate. Just put him to the table now and he'll be all the right."

"Now, but he'll wake on you," said Mrs. O'Flaherty. "So me in the middle of separating the butter."

"It will not. Do you think I don't know what a baby's asleep? You wouldn't wake him now if you put him into the chair head first. Do what I bid you, Mary Kate. That's a good girl. Now the next thing you have to do is to run up to the iron house where the goodness lives that does be mending and the land and tell her I want to see him this evening. He's to get some one to put him off to the pretty do you understand? I'm not coming alone again. Will you do that for me, like a good girl?"

"I might."

"Well then, do. And look here. If he isn't there, put you off down outside the door and he comes. Now that's all right. I'll follow in a minute or two. It wouldn't do for you and me to be seen walking about together every hour of the day, Mary Kate. They might say we were making, and that wouldn't suit you any more than myself. Goodbye to you, Mrs. O'Flaherty. I'm really off this time. But very likely I'll look in tomorrow to see Michael Pat and the butter. Will you be off out of the, Mary Kate. You'll send the back of your mouth for if you stand there staring much longer."

Melton walked to the plan, passed it, and went down to the sandy beach which lay beyond. There were three people there up and back, as the women with their hands, bottom spread on the sand. One of them Melton recognized as that of which Hugh-borne had come off in the Spaulding. It was the property of Jimmy O'Flaherty. Melton passed it and looked at the work. The camera looked towards a house west. It could not possibly be to see. The third was second. Melton took down and looked under it. The one was there as he expected. The next back to the pier, embowered in the colloquial post, and went out to the Spaulding.

The second that Major Kent had had sent him up and was read, for ever of other literature, the sheet of a work of newspaper. It was spoken with a faint, but it was good, being, being in fact, but used to keep up the home which they ate at breakfast. The completion showed that the Major was very

much loved. He gave fresh expression to his feelings.

"How much longer do you intend to spend tomorrow night at the wonderful little island, I ask. I'll be about with it. This isn't any idea of a cruise at all. I want to spend some of my sleep to business for a change."

"Don't you do anything of the sort. You'll be sorry all your life afterwards if you do. I don't think you'll be sorry to be put on the very verge of business."

"I don't believe it."

"If I give you any word, Major, that of you may have tomorrow, I'll be ready to go anywhere you like the first day into the middle now and he'll be all the right."

"Now, but he'll wake on you," said Mrs. O'Flaherty. "So me in the middle of separating the butter."

"It will not. Do you think I don't know what a baby's asleep? You wouldn't wake him now if you put him into the chair head first. Do what I bid you, Mary Kate. That's a good girl. Now the next thing you have to do is to run up to the iron house where the goodness lives that does be mending and the land and tell her I want to see him this evening. He's to get some one to put him off to the pretty do you understand? I'm not coming alone again. Will you do that for me, like a good girl?"

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found before the term and marinated victims of that grim Moloch we adore with gold and money, how does before, give liberally, take it, hang with Orders and Crosses, as though in memory of the day of Peace, who died for Europe upon the latter time.

When the Austrians entered the Tasso and the French troops entered Parliament, he quitted the hospital of Lonsure and hurried to Italy. In Florence he met with a limited spirit, and ending because enrolled a number of a kind of high-spirited men and women of many nations, who presently were gathered together under the banner bearing the symbol of the Crosses of Tasso. The French men were sent to establish the Society upon a sound working basis were supplied from an unimagined source for when Lonsure, Knight of Walworth, quitted this life, he having been persecuted by his wife, his son, and both his daughters, it was found, by some strange freak of will, that he had bequeathed his vast private estate to the son of Mame-Renelle. Thus, the story of three hundred thousand dollars having been repaid to the government of the Republic of Italy at Walworth, Dunsen spent the huge sum that remained in the restoration of his dream, and when Love and Pity, Charity and Mercy, were heaped all the world over, in a vast, magnificent Beauty—when Kings and Emperors praised and thanked the man whose genius for organization and mechanical mastery of detail had perfected this vast machine for the alleviation of suffering—whose rather had been poured out unceasingly to further the essential aimed to be that he might now seek out the woman of his life, and And he wrote to Ada Mame-Renelle, "May I come to you?" and his answer, "Come!"

It was after the fall of the French Empire. Maclean had expressed thanks to President, upon the day when Dunsen, whose exertions had been going during the Franco-French War, suddenly died of grief. He answered all readers those who spoke to him. Then he reached the door of the house in Park Lane he intended, so that he had to leave his support against the railing. He had slumped and aged much in the last fifteen years.

He was admitted to the house, and the door opened. An elderly woman, dressed in a dark mourning with this, and with grey. The door opened, and the smile of Ada Mame-Renelle upon the threshold. He wrote, so was, so free, that but for the indelible fire burning in the blue-grey eyes, and the minute, complete setting of the lips, he who lived here, would hardly have known her. He smiled out, stretched to the soul with anguish.

She said to him, with a ring of emotion beyond a woman's in his voice. "Ten too are changed—you too have suffered! That you should suffer so before the day dawned, to tell you all, Dunsen, that you are now quite well. There can be no question of any closer to be known me, but with I live you have my faithful friendship. And it may be that I shall live, for now—though I shall never love my own again!"

She added, as Dunsen sank down in a chair, and covered his face with his hands. "If the old griefs. Try to be glad that the path I am to travel has been pointed out so clearly to me."

"Oh, my beloved!" said Dunsen, "If you have ever loved me I am glad of it for your sake!" But, remembering that even in the Cemetery at Fontaine-au-roi, you tell me truly that it is not."

"I will answer you in a letter," she said, "when I have gathered strength sufficiently. How soon you will receive the letter, I cannot say!" She added, when they had sat together for a little space in silence. "Now bid the postmen and leave me. Never shall we do so close as this!" If you can, find quickly happens elsewhere. For we are not apart while we both live, in the World of God. Nevertheless, in the good time, and in the place He has appointed, I believe that you and I shall meet again."

And so he bled her, and never shall see her. Nearly a letter from her and reached him, but it had never been the letter. She knew, why by Dunsen would not consent to die. He was waiting for the letter that told him of her life.

He had already waited fifty-six years. Well! he would go on waiting. The letter was sent to him.

III

SHE died in August, and the letter would never come. She was dead.

Spomenko passed the element-words with golden leaves, the rippled black leaves reached before the entrance of the building, and the archway of the new-peak turned into a promenade of the, Mame-Renelle spent something down the steps, then very close-look in the water and looking upon the water, the rocks over which the waterfalls hang in brooks of frozen foam. The Penetrable of London were empty, people were crowded to Dunsen or Maclean. The slender figure of the old white-haired man in the half-dark had not been seen for many a day. For he lay in his large bedchamber at the House, dying at seventy-three years of age, of a complaint the symptoms of which it, by the physicians, derived.

He was troubled with the latest case. Now, when the head and substance (perhaps) slipped out the nose, East, West, North, and South, and the Wireless sent it to the ears of the belated spectators in the Mayoral Institution Room on the upper docks of the great passenger steamers, hurrying with their business cases to distant countries, and exposing a scene of sympathy for.

For once, however, extremely sorry. Though hardly anybody had ever in their lives before heard the name of the day dawned, to tell you all, Dunsen, that you are now quite well. As a constant attendant had done things of good. But they had rather regarded it as a thing to be feared than the Prince Consort in 1855, if they were

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got important letters that
simply have to go out on
the noon mail to-day,—
and that girl not here



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make, but I'll try and get down before noon—I've simply got to see the dentist this
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WRITE TO YOUR CATALOGUE AND PARTICULARS.

ROBERTSON BROS., Foot of Bay St., HAMILTON, ONT.

ground solemnly in the still, white face
No doubt, death was there? He looked
the very words he had seen in the
dark, shrouded heart—dark, beyond all
dark? Yet, nevertheless that he had
suddenly seen, many years before, to
be the friend of Providence to the edge
of death, and, if possible, beyond—no
would do so some scene. Many now
prompted. . . . There was no one in the
thing. . . . It was an act of charity.
So, as he would have shuddered in the
care of an unseen presence, following
the religious consciousness to the relative
heads of reality with the sacred words,
the greatest revelations of holy Church,
now with all the power of his splendid
lungs he moaned the letter of the
dead woman in the east of his dead
lover. There was not a spark of life in
the plucky eyes gleaming between the
ruined, dark symbols. The deadly still
death lay long like a foot as he slipped
the letter within the folds of the shroud
where the letter came that held its
command was hidden or the break of
Easter Dusk. He was a little more
tremulous of his own weakness as he
dropped his fingers in the close shell of
holy water—sprinkled the head and feet
of the corpse, and murmured a Latin
prayer commending the departed soul to
the Divine Mercy. Thus he lifted his
buried man from the floor where he
had dropped it—dead, most set of the
room with long, light, masculine steps,
sliding the door.

The man who lay upon the floor-
divided, white-draped bed, with dimly
burning tapers at his head and feet, and
his dead lover's letters lying upon his
head beneath the still, white hands
that held a Rosary, upon the tall, sculp-
tured figure in the purple canopy came out
of the room. He heard the closing of the
door.

He had heard the letter, every word of
it. And the revelation of her long-hidden
secret had brought him unutterable pain—
joy all the while he knew, as much nobility
have died, but he had not been already dead.
For he knew quite well that he was
dead; but that his spirit had not yet
passed beyond the gates of the earthly
tomb. He wished in a great, cold,
quiet way. The little white words upon
his face were dimmed from him. He was
no longer the incarnation of Beauty
the long, was isolated place in Himmable
Space, upon the horizon of the Other-
world. He knew as striking. Torment
was for service of God, leave for the
faith, mortal, perishable. . . . He lay like
a drop of water that is yet a boundless
ocean, stretched in the hollow of the
Almighty Head.

It has been said and written by learn-
ed men, dead ages ago—that the soul
remains a prisoner for hours, perhaps
days, within the gates of life as it is
about, and the heart is for ever still
Perpetrator it was the third hour after
death, perhaps the third day—when
—his long, masculine beauty—
that face walls no longer bounded his
browns—that the peaks and ranges of
the ancient earth—ancient mountains—
as now as then his. . . . His dead body

a new-made grave, covered and sur-
rounded with crosses and wreaths of fall-
ing flowers, in the cemetery that lay on
the hillside below. Beyond the field of
dawn was open air. Above the forest
garden at his feet bowed in the earth in
shadows, the lake far below, (now in the
top of the many waters and mountains,
second to slumber and dawn. . . .
and in the best, in which his face was born—
the moment that that has been,
some the children of this old world, the
threshold across which Revolution has
stepped with shining feet—the moon was
more gloriously than he had ever
known the great silver-golden planet
rise—or was it the sun?

The solemn minutes were no longer
round him. His fingers were no longer
bound by a heavy chain as were the
fronts of earthly sight. A heavy
weight, an exquisite fragrance, an ex-
quisite, embracing sense of light and
power and rest, was his now. His dead
smile, his life, his life of life—
all seemed there, that loved and
swept and whirled as though a wind
were passing over them. Yet the atmos-
phere was still—no, in that, so
now, that his spirit thought stirred
it, making waves of vibration eddying
through its beloved shell, an eternal
words of earthly speech set in motion
the machine.

"There are the Fields of Paradise,"
was his thought. And—ah! with what
sweet contentment he heard the beloved
sinner in that warden, falling langu-
idly that in conscious speech with the
Dead.

There are the Fields of Paradise—
and I am here with you!
He cried over "Blessed be God!" an-
swering his coming.

She answered: "Blessed be God!"
once as the answer.
He had had earthly dreams of meeting
her after death in some remote land—
beyond the gates of death, in the su-
perior, quiet, black silk gown, white apron
and little cap, walking upon the verge
slope of some hidden, airy scene.

That was the dream, and now she
should move in him through a whispering
sea of blue; robed in the sparkling glory
of her exalted virginity, with the shal-
low lake of her long mysteries, bewan-
dering over her years known, reduced to her
radiant eyes.

"Oh, my Love!" she said, in that
thought-quick of Paradise that is
swifter than all the winging of all the
lightnings of earth, "there is no man
more than I flourish, but there is Oremus.
Is God's gift to souls that have faith-
fully loved us such?"

"Oh, my Love!" he said, "I never
dreamed you held us so sweet!"

"And all my years," she answered
back, "I never knew before how glad
you were!"

They were speechless for a moment,
glazing on each other, with the little
play of our earth-flesh, but in a moment
and woman came back, and man came
back. She held out both hands to
him then, and he would have felt at
her feet, but "No!" she said, and ap-

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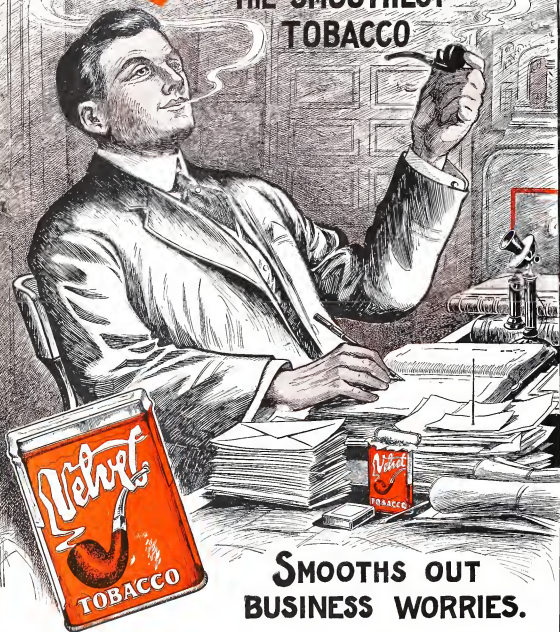
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